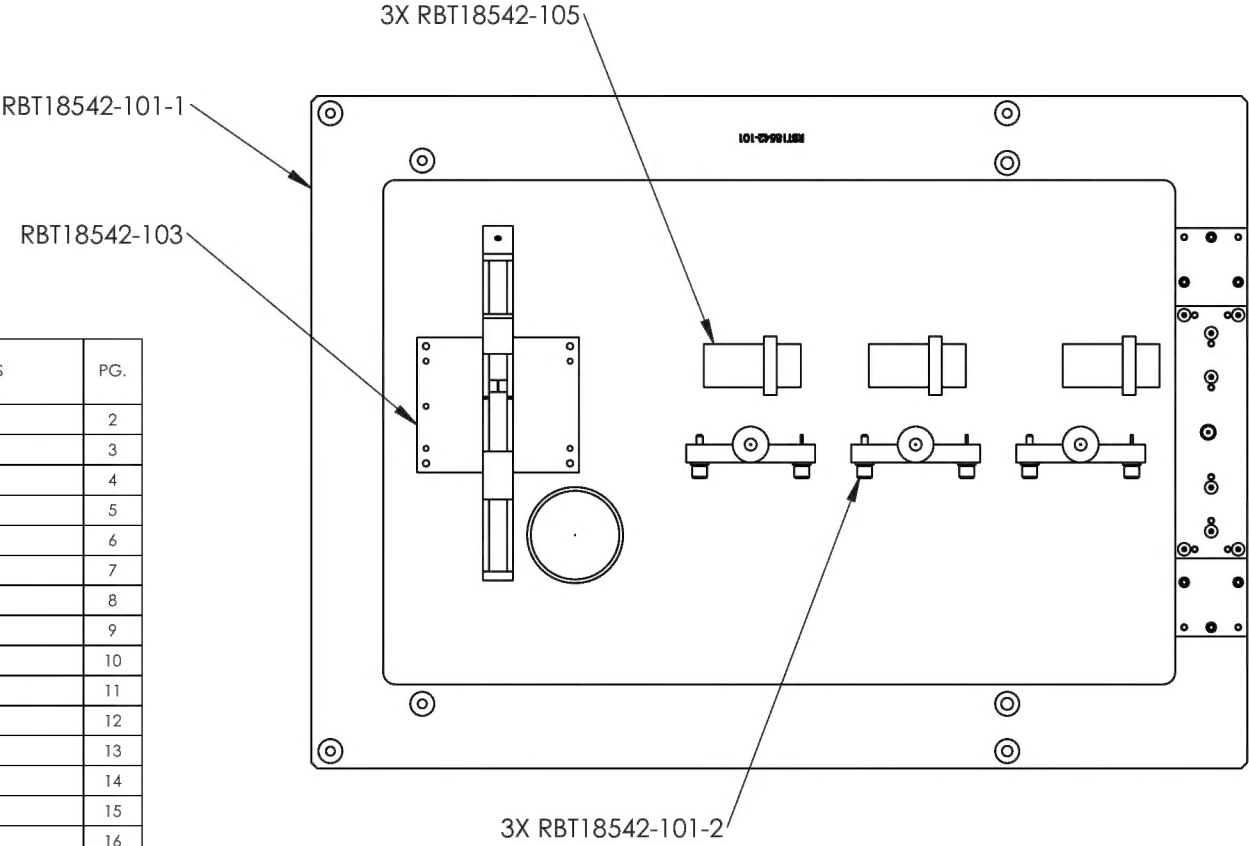



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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			

ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
						X		-101-1	1	FRONT BULKHEAD PLATE ASSY.			2
					X			-101-2	3	HANGER BEARING LOCATOR ASSY.			3
						1		-101-3		PLATE	MIC 6 PLATE	7/8 X 28-1/4 X 39-1/4	4
						2		-101-4		BUSHING	4140 Q&T	Ø1 X 1-1/16	5
						1		-101-5		BUSHING	4140 Q&T	Ø1 X 1-1/16	6
						5		-101-6		BUSHING	4140 Q&T	Ø1 X 1-1/16	7
						1		-101-7		BUSHING	4140 Q&T	Ø1/2 X 1	8
					1			-101-8		SUPPORT	6061	1-1/2 X 2-1/2 X 5-1/2	9
					2			-101-9		BUSHING	4140 Q&T	Ø3/4 X 1	10
					2			-101-10		BUSHING	01	Ø33/64 X 5/8	11
					1			-101-11		LOCATOR	4140 Q&T	Ø5/8 X 2	12
					1			-101-12		RELIEVED LOCATOR	4140 Q&T	Ø5/8 X 2	13
				X				-101-13		WIRE SUPPORT ASSY.			14
				1				-101-14		TOP PLATE	6061	3/4 X 3 X 10-5/8	15
				2				-101-15		LEG	6061	3/4 X 3 X 6	16
				2				-101-16		GUSSET	6061	3/4 X 3-1/2 X 6-3/4	17
				2				-101-17		BASE	6061	3/4 X 3 X 4-1/8	18
				16		4	B/O	-101-18		DOWEL PIN	STEEL	Ø1/4 X 1-1/4 MCMaster-CARR #98381A544	14
						6	B/O	-101-19		SOCKET HEAD CAP SCREW	STEEL	1/4-20 X 1 MCMaster-CARR #91251A542	2
				16			B/O	-101-20		FLAT SOCKET HEAD CAP SCREW	STEEL	1/4-20 X 1-1/4 MCMaster-CARR #91253A544	14
			X					-103	1	ALIGNMENT FIXTURE ASSY.			19
		X	1					-103A		MACHINED FRAME			20
	X	1						-103B		ALIGNMENT FIXTURE WELDMENT			21
	1							-103-1		BASE PLATE	1018	5/8 X 5-3/4 X 6-7/8	22
	2							-103-2		SIDE PLATE	1018	1/4 X 8 X 14-1/4	23
	1							-103-3		END PLATE	1018	3/8 X 1-1/4 X 1-5/8	24
	1							-103-4		TOP END PLATE	1018	3/8 X 1-1/4 X 1-7/8	25
	2							-103-5		GUSSET	1018	1/4 X 1-1/4 X 2-1/8	26
			2				B/O	-103-6		BUSHING	STEEL	AIRCRAFT HARDWARE & ACCES. #CEP-5/64(CB2-.0781)	19
			1					-103-7		PIVOT PIN	01	Ø5/8 X 1-3/8 MSC #8905000 (MODIFIED)	27
			2				B/O	-103-8		SOCKET HEAD SET SCREW	STEEL	#10-24 X 1/2 MCMaster-CARR #91375A242	19
			1					-103-9		CENTERING PLATE	4140 Q&T	Ø4 X 5/8	28
	4						B/O	-103-10		ALIGNMENT PIN	STEEL	Ø1/16 X 3/8 MCMaster-CARR #98381A417	21
X								-105	3	T/R HANGER BEARING SUPPORT ASSY.			29
1								-105-A		SIGHT SHELL	6061	Ø2-1/2 X 4-1/4	30
2								-105-B		SIGHT INSERT	01	Ø5/16 X 3/8	31
ASSY -105	ASSY -103B	ASSY -103A	ASSY -103	ASSY -101-13	ASSY -101-2	ASSY -101-1							

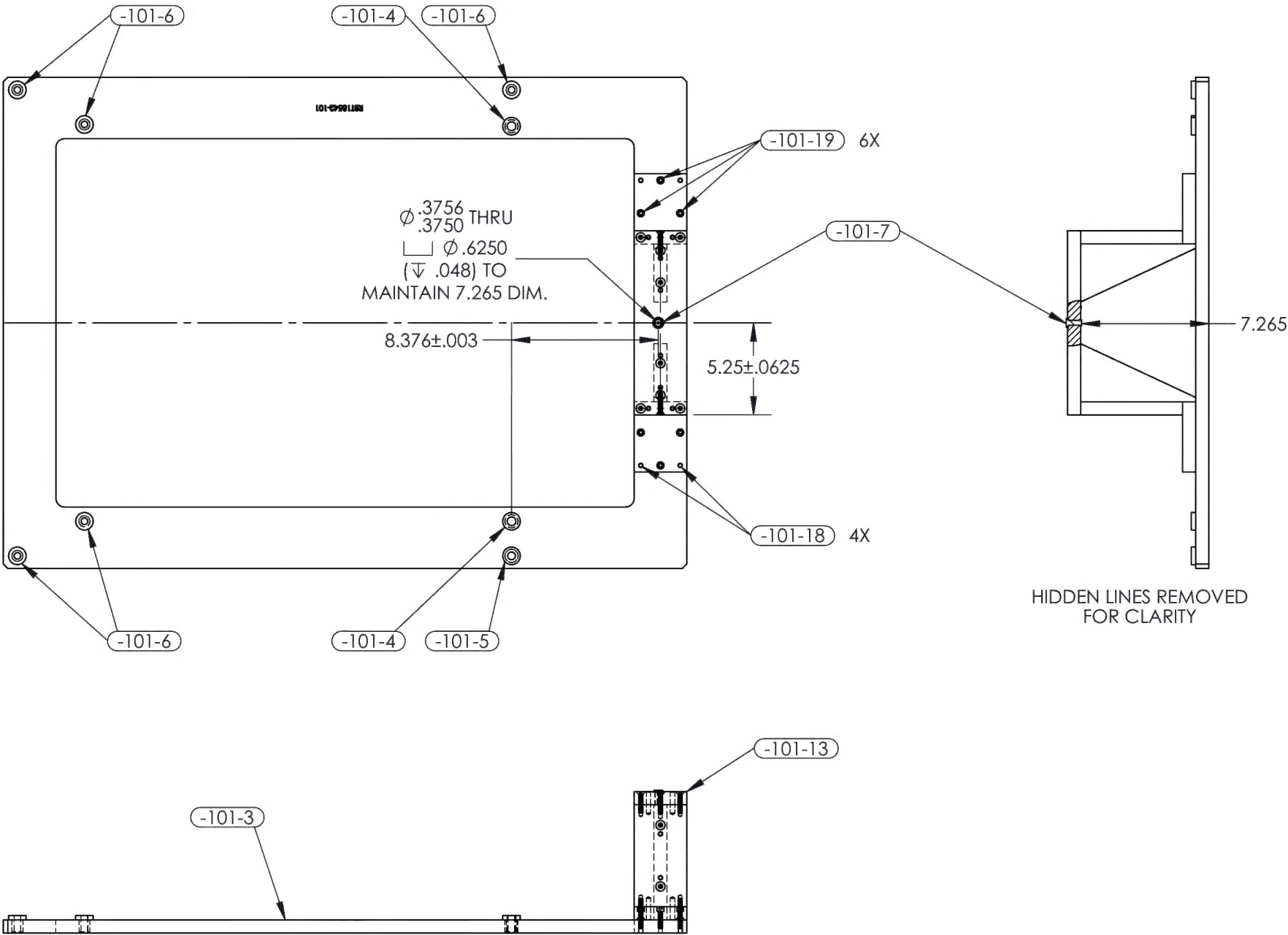


UNDER REVIEW
URF 19-1163 19.10.31 (VM)

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542	REV
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	DRAWN BY: CLOUGH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL BELL
SCALE 1:8	DATE 8/21/2013
SHEET 1 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



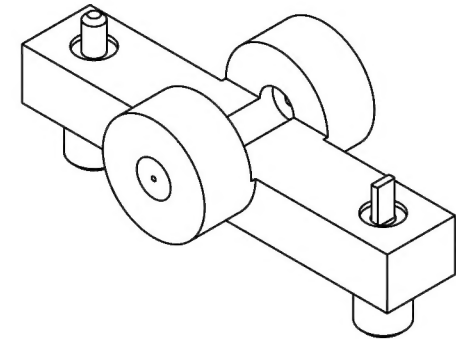
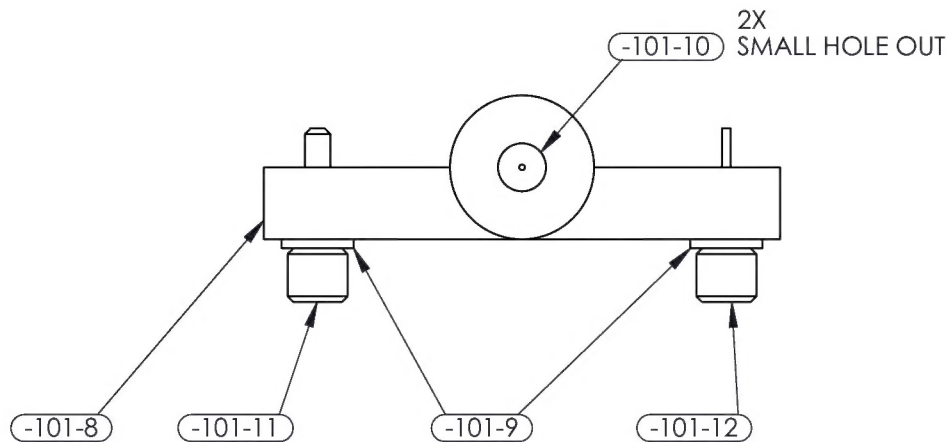
FRONT BULKHEAD PLATE ASSY.

UNDER REVIEW
URF 19-1163 19.10.31 (VM)

RED BARN MACHINE			
TITLE		ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.		RBT18542-101-1	REV
MATERIAL		DRAWN BY: CLOUGH	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005		FRACTIONS ± 1/32	
.XX ± .01		ANGLES ± .5°	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		BELL	
SCALE	1:8	DATE	8/19/2013
		SHEET 2 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED




UNDER REVIEW

URF 19-1163 19.10.31 (VM)

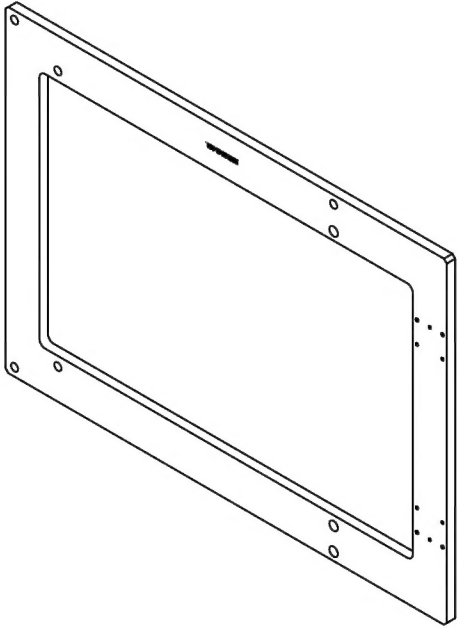
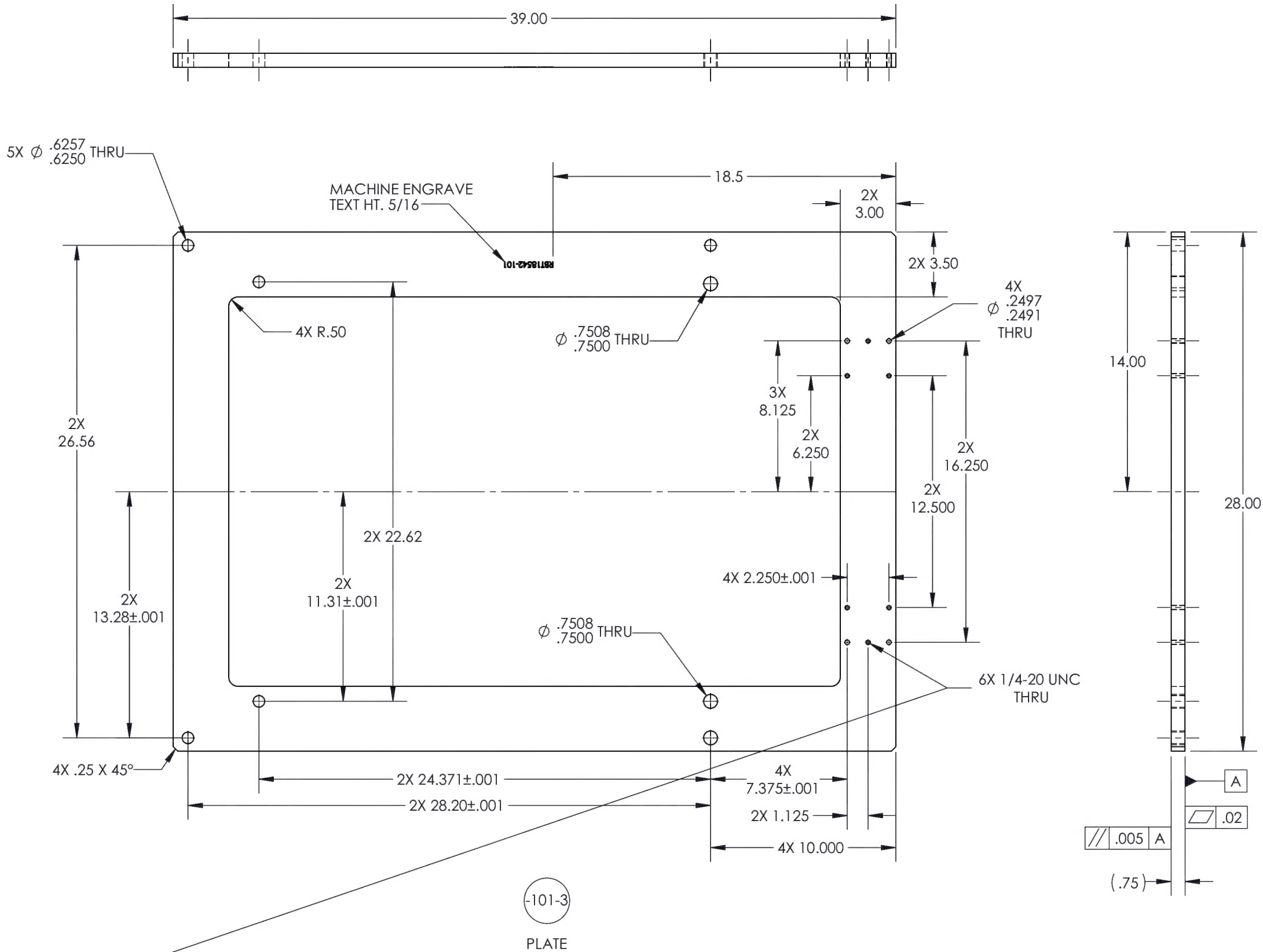
-101-2

HANGER BEARING LOCATOR ASSY.

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.	RBT18542-101-2 <div style="float: right;">REV</div>
MAT'L	DRAWN BY: CLOUGH APPROVED <i>D Weil</i>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	DATE 8/19/2013 SHEET 3 OF 31

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



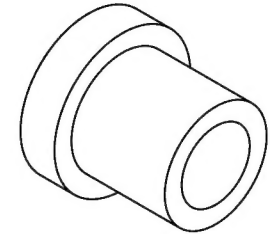
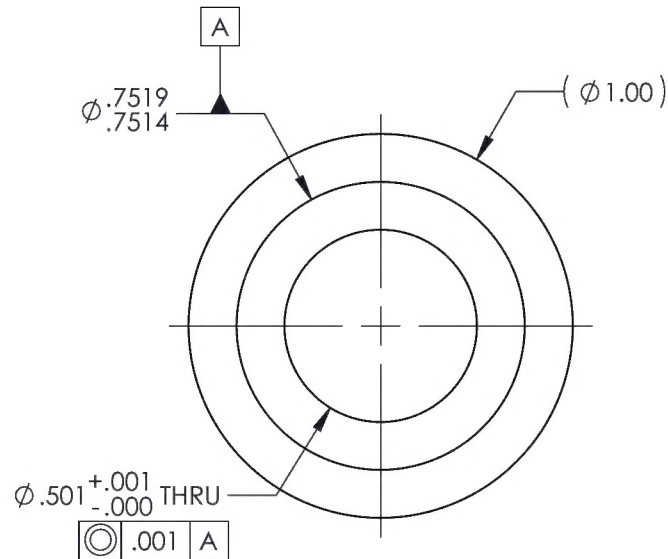
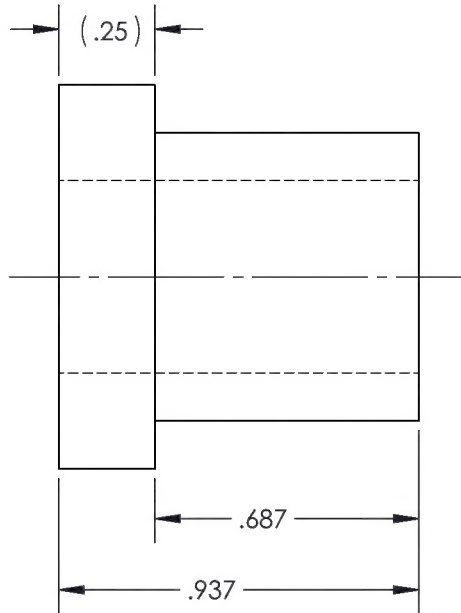
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE			
TITLE		ALIGNMENT DRIVESHAFT HANGER AND 42° GEARBOX	
DWG NO.		RBT18542-101-3	
MAT'L		MIC 6 PLATE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: CLOUGH	
.XXX ± .005		APPROVED <i>D Weil</i>	
.XX ± .01		HEAT TREAT	
.X ± .1		FINISH CLEAR ANODIZE	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		SPEC MIL-A-8625F, TYPE II, CLASS I	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL BELL	
SCALE 1:6		DATE 8/19/2013	
		SHEET 4 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



UNDER REVIEW

URF 19-1163 19.10.31 (VM)

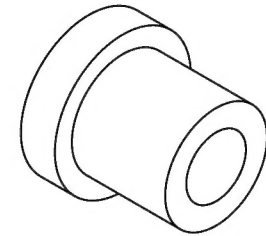
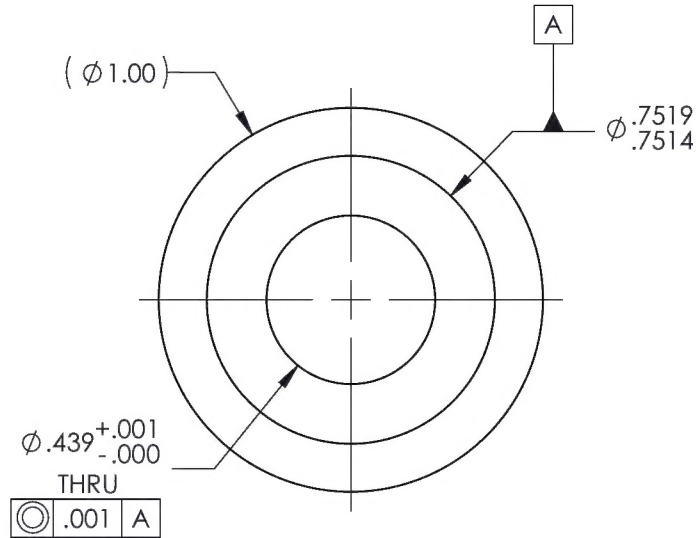
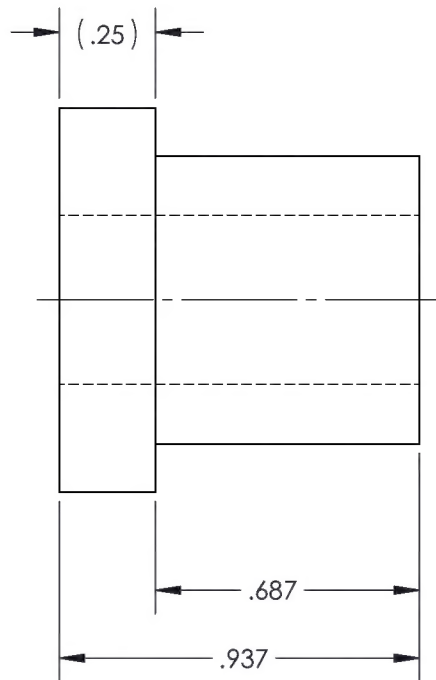
-101-4

BUSHING

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-4	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 5 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



UNDER REVIEW

URF 19-1163 19.10.31 (VM)

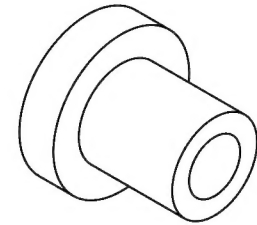
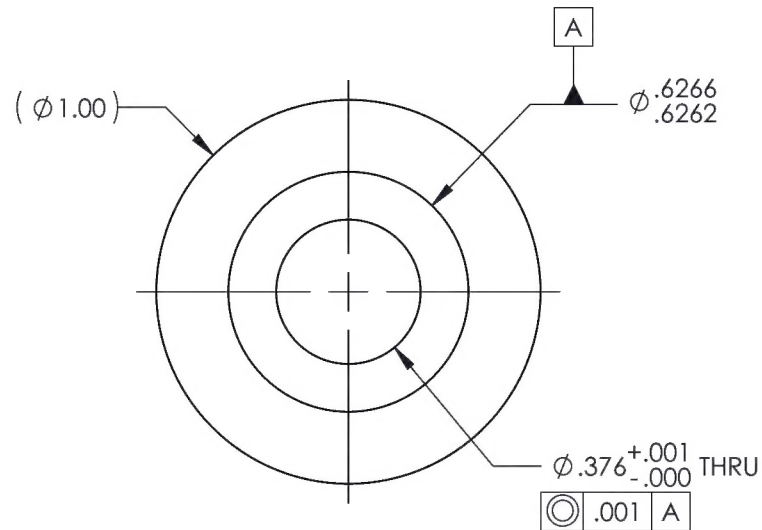
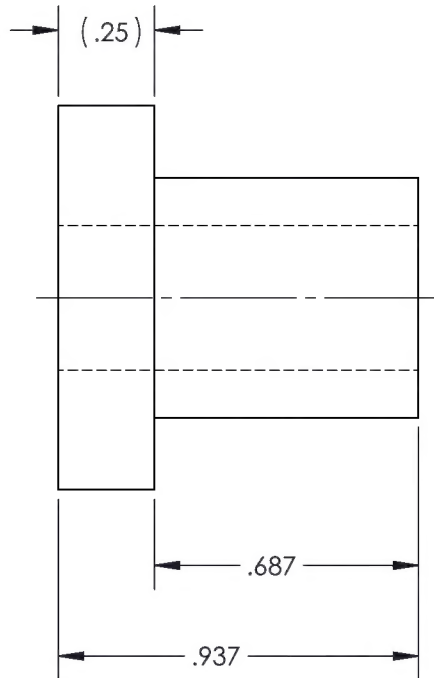
-101-5

BUSHING

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-5	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 6 OF 31	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL


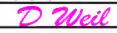


UNDER REVIEW

URF 19-1163 19.10.31 (VM)

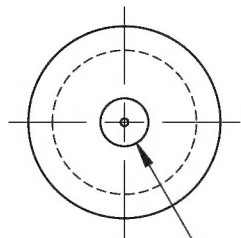
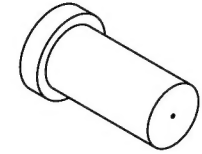
-101-6

BUSHING

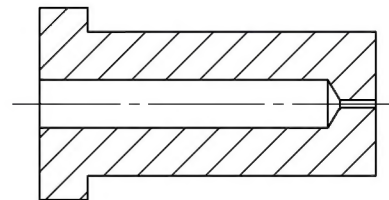
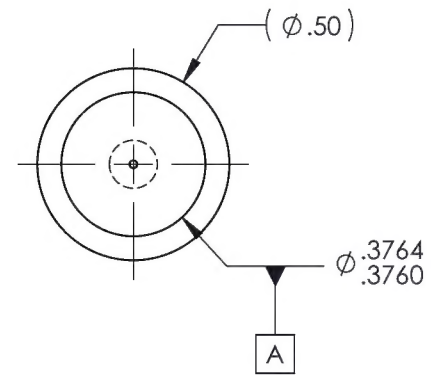
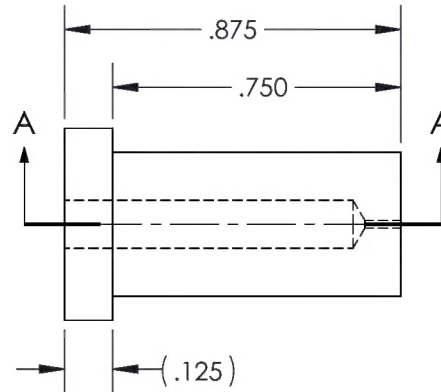
 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-6	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT FINISH BLACK OXIDE
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC USED ON MODEL BELL
SCALE 2:1	DATE 8/19/2013
SHEET 7 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



$\phi .020$ THRU
 $\phi .125 \nabla .75$
 $\phi .001$ A




SECTION A-A



BUSHING

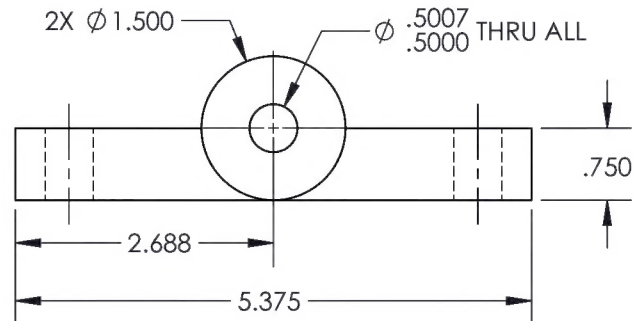
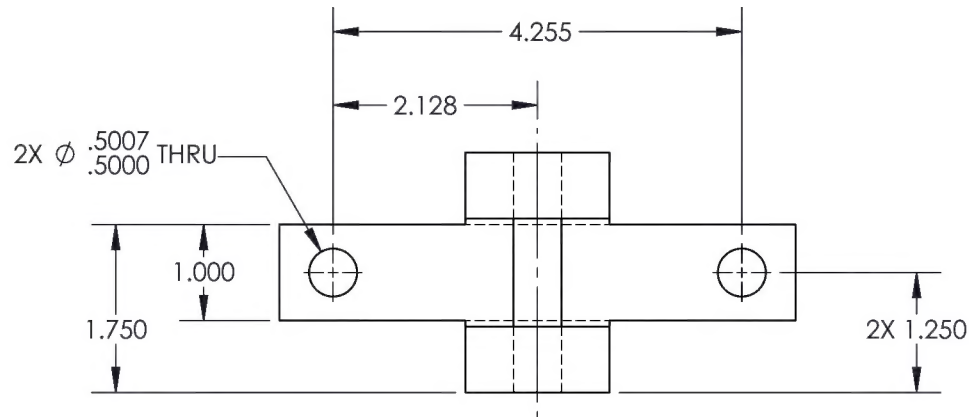
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.	REV
RBT18542-101-7	
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 8 OF 31	

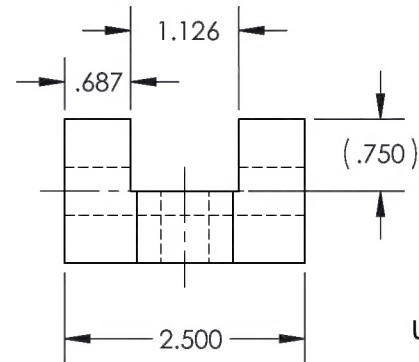
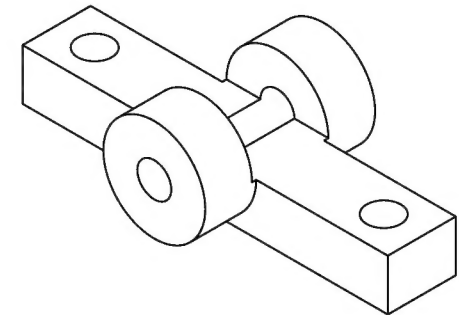
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



-101-8

SUPPORT



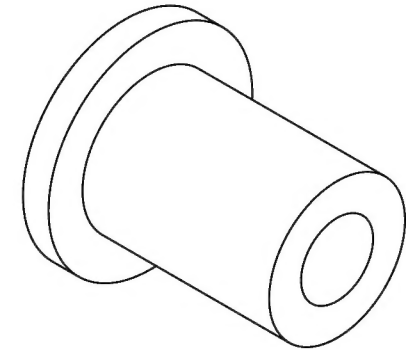
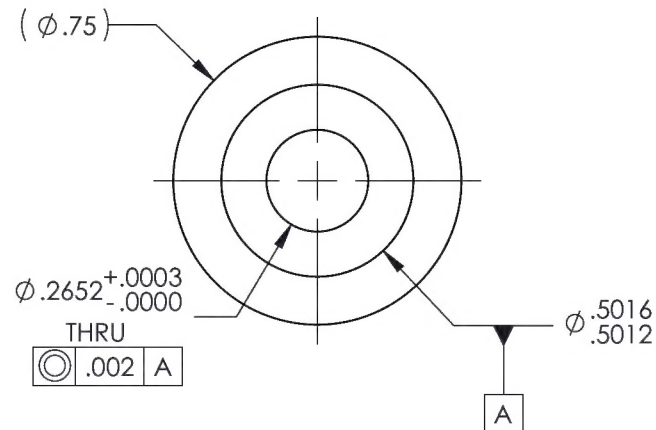
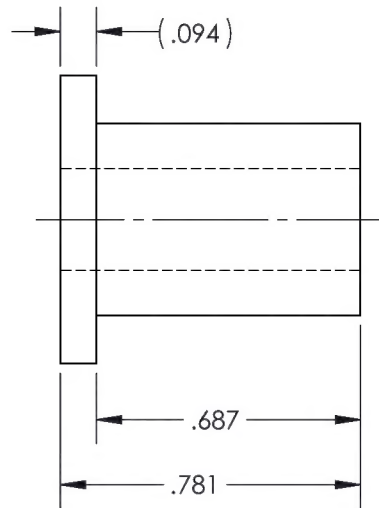
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-8	REV
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:2	DATE 8/19/2013
SHEET 9 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED




UNDER REVIEW

URF 19-1163 19.10.31 (VM)

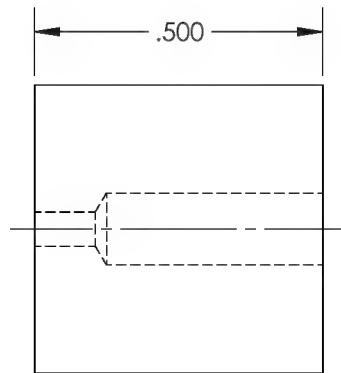


BUSHING

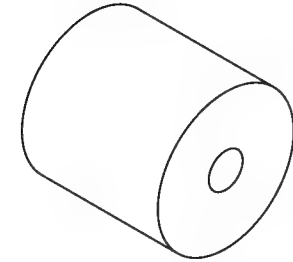
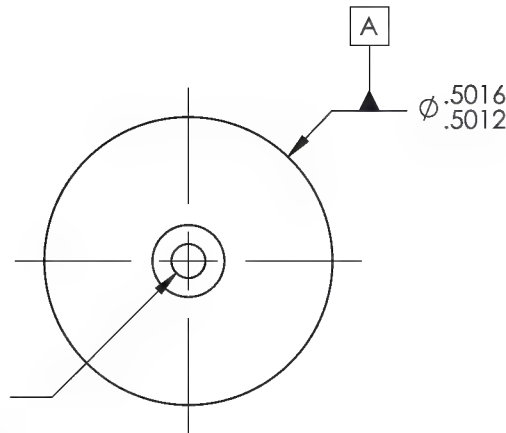
 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-9	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 10 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



ϕ .059 THRU ALL
 ϕ .125 ∇ .38
 ϕ .002 A


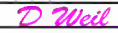


UNDER REVIEW

URF 19-1163 19.10.31 (VM)

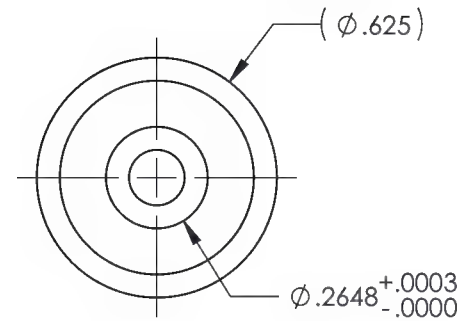
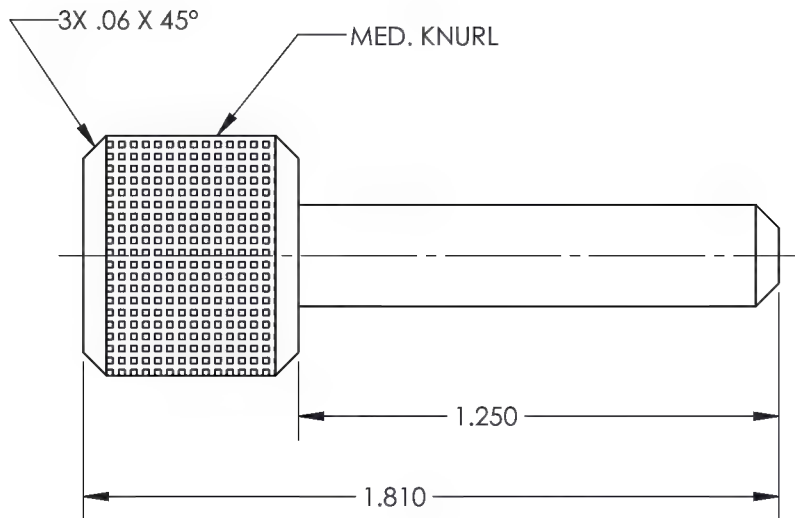
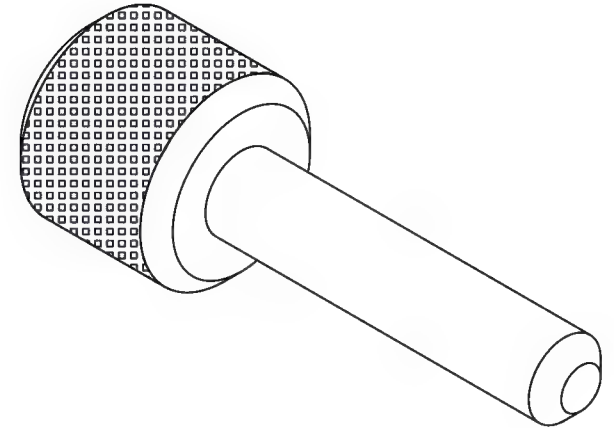


BUSHING

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-10	REV
MAT'L 01	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX \pm .005 .XX \pm .01 .X \pm .1 FRACTIONS \pm 1/32 ANGLES \pm 5°	APPROVED 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	HEAT TREAT FINISH BLACK OXIDE SPEC
SCALE 3:1	USED ON MODEL BELL
DATE 8/19/2013	SHEET 11 OF 31

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



UNDER REVIEW

URF 19-1163 19.10.31 (VM)

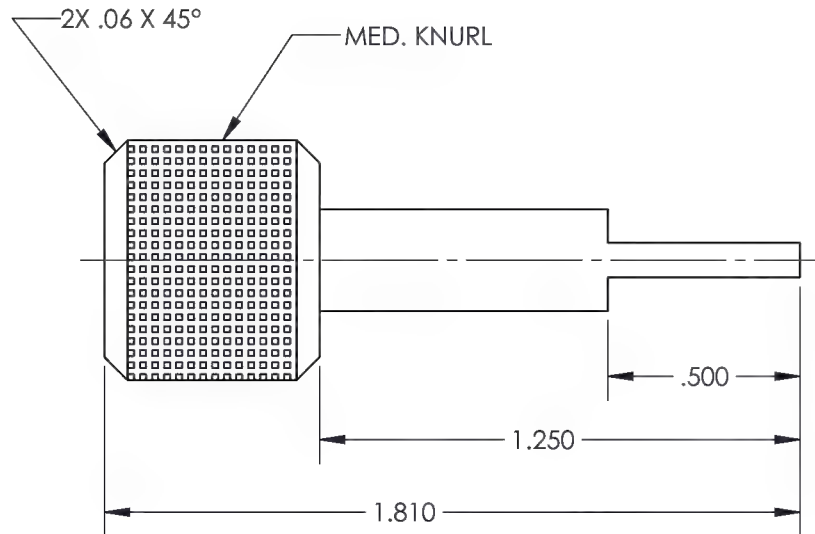
-101-11

LOCATOR

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-11	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 12 OF 31	

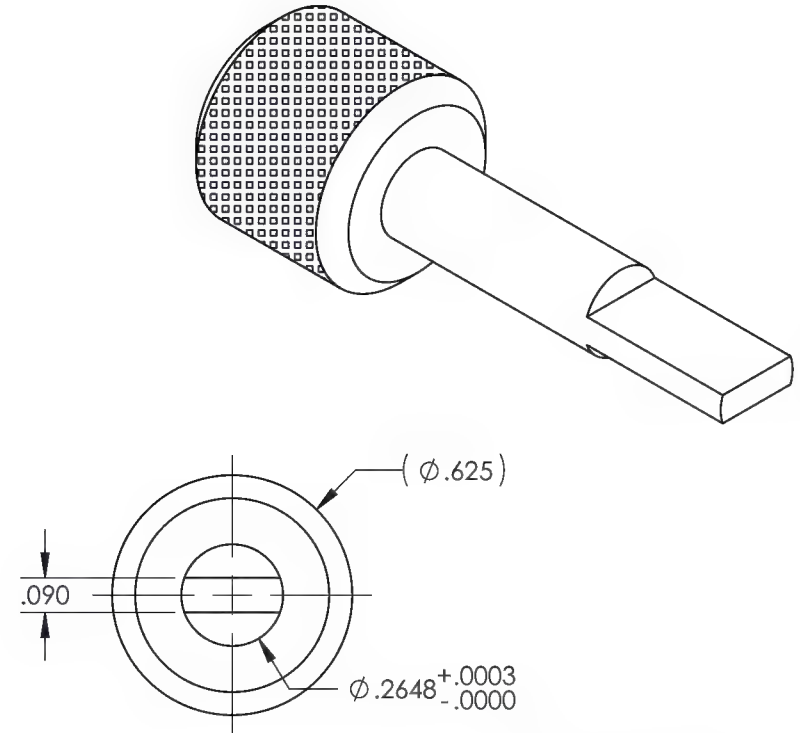
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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



-101-12

RELIEVED LOCATOR



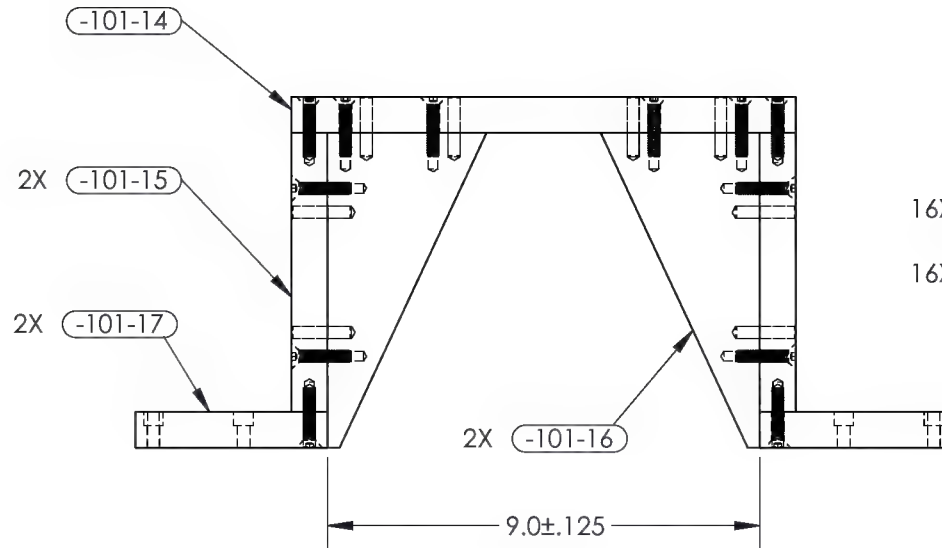
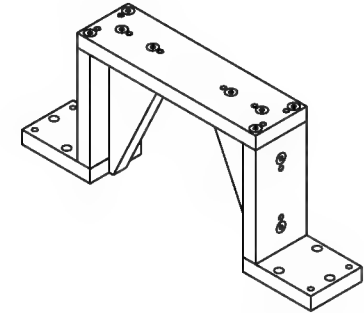
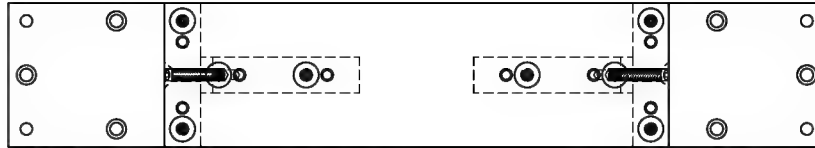
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-12	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH BLACK OXIDE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 2:1	DATE 8/19/2013
SHEET 13 OF 31	

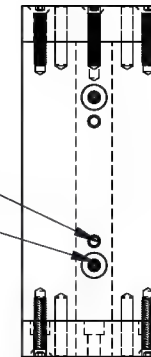
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



16X -101-18

16X -101-20



WIRE SUPPORT ASSY.

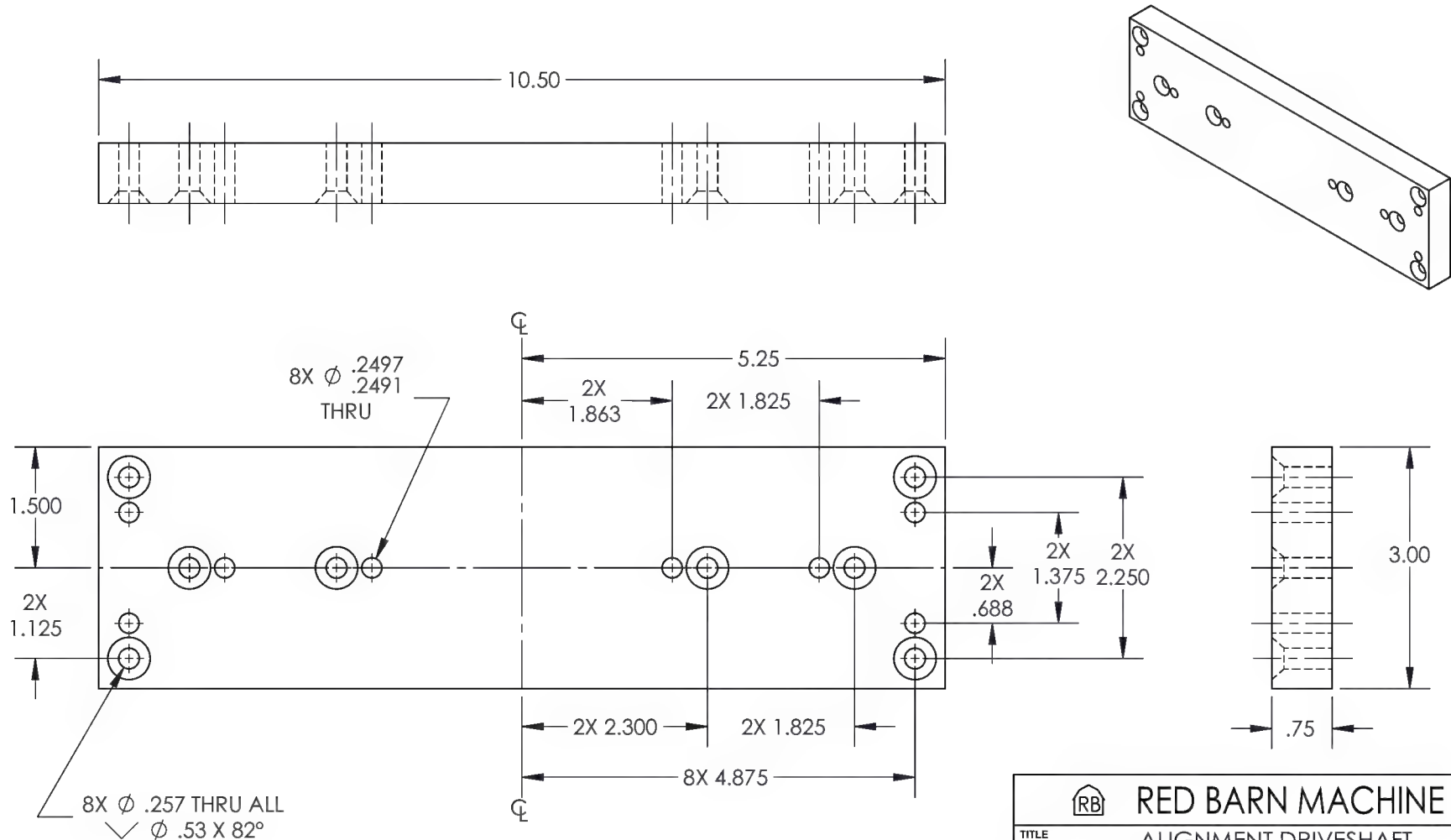
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-13	REV
MAT'L	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT
.XX ± .01 ANGLES ± 5°	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	BELL
SCALE 1:4	DATE 8/20/2013
SHEET 14 OF 31	

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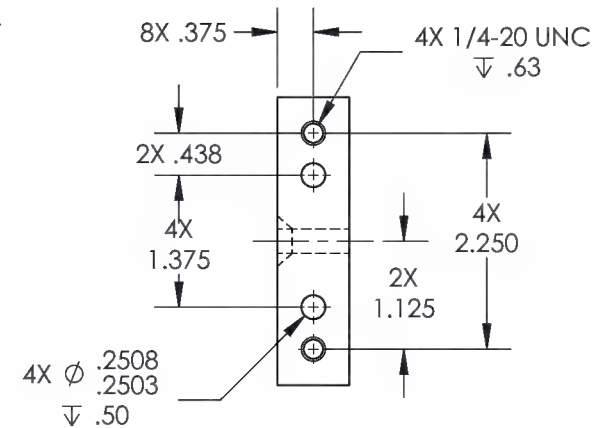
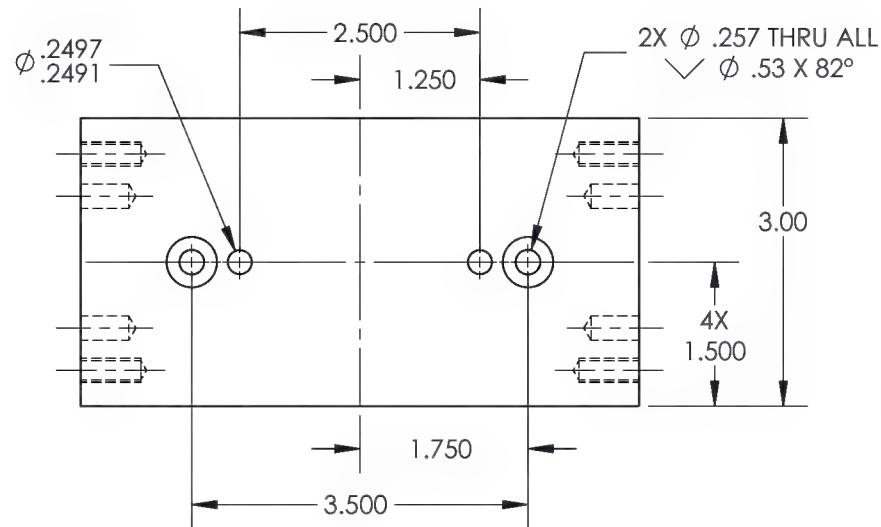
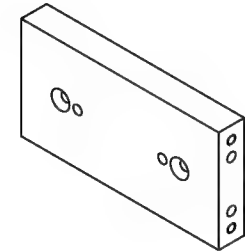
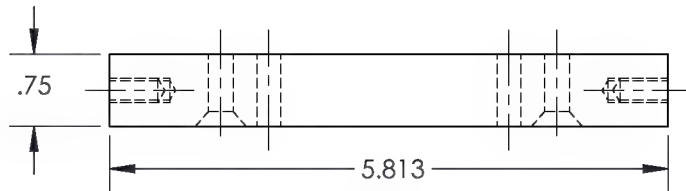
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-14	REV
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:2	DATE 8/20/2013
SHEET 15 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



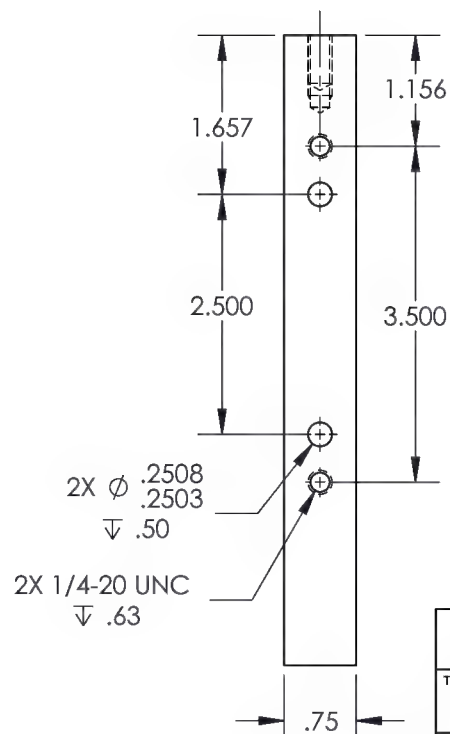
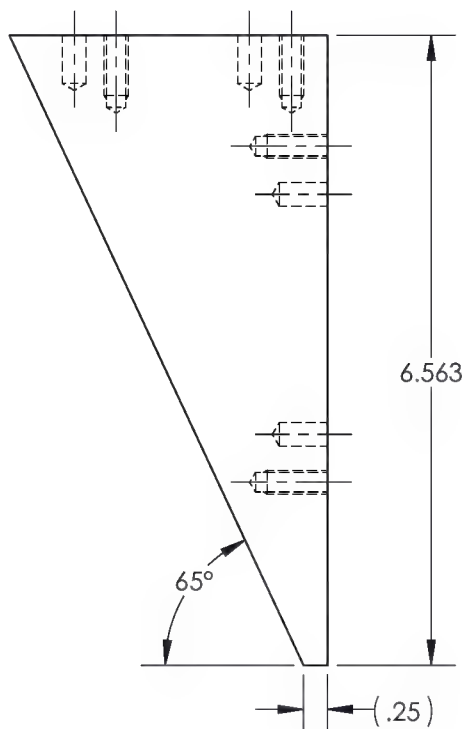
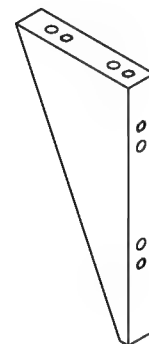
LEG

UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-15	REV
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:2	DATE 8/20/2013
SHEET 16 OF 31	


REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



URF 19-1163 19.10.31 (VM)

(-101-16)

GUSSET

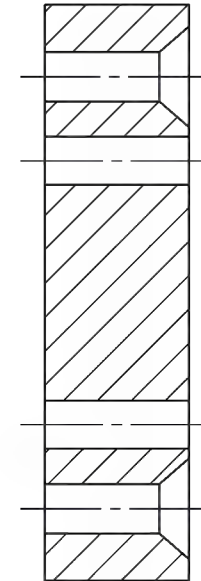
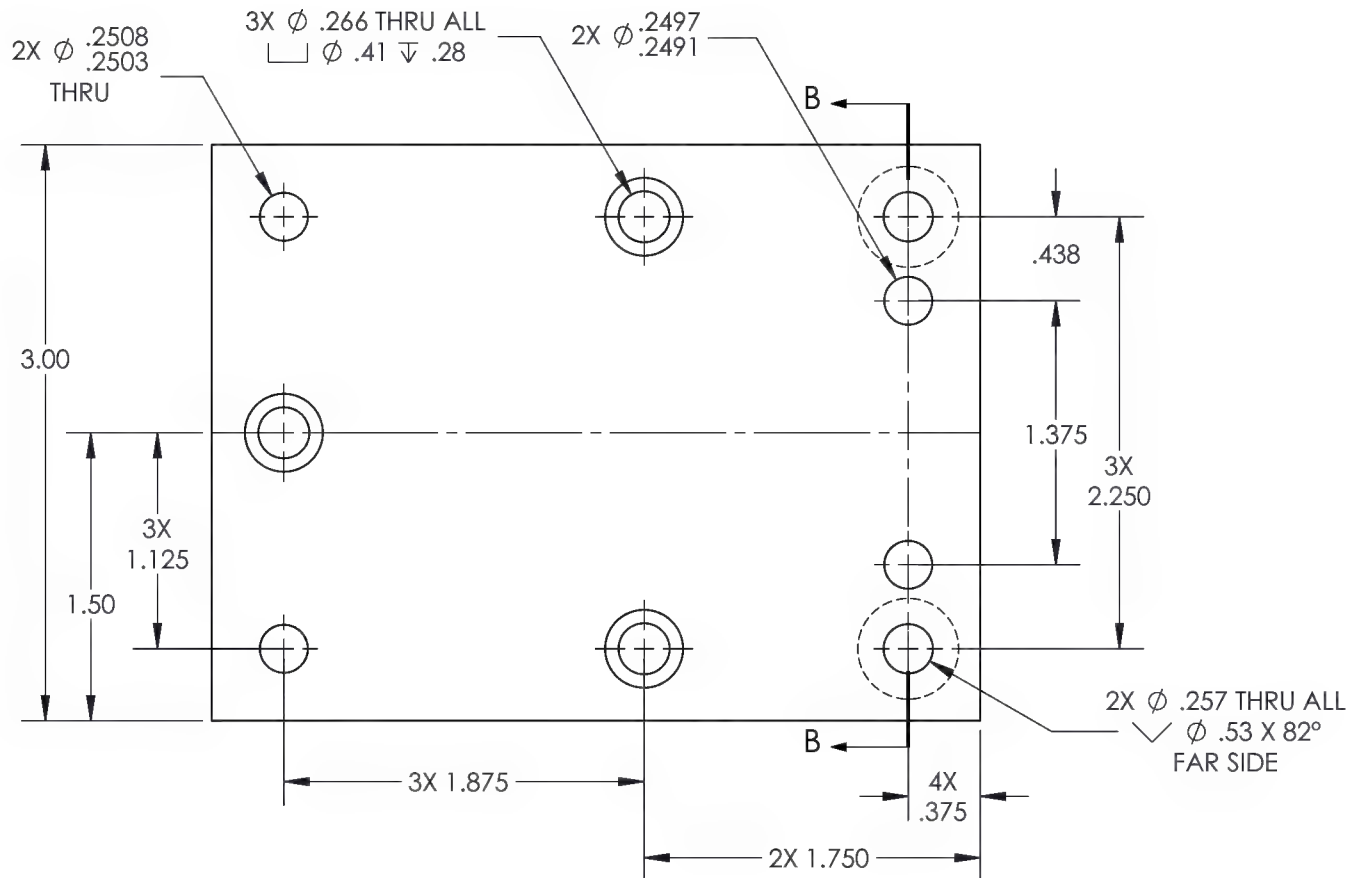
		<h1>RED BARN MACHINE</h1>	
TITLE		ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.		RBT18542-101-16	
MAT'L 6061		DRAWN BY: CLOUGH	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005 .XX ± .01 .X ± .1		FRACTIONS ± 1/32 ANGLES ± 5°	
1. BREAK ALL SHARP EDGES .015 x .45" OR .015R		REAT TREAT FINISH CLEAR ANODIZE	
2. PLATING LIMITS APPLY AFTER PLATING		SPEC MIL-A-8625F, TYPE II, CLASS I	
		USED ON MODEL	
		BELL	
SCALE 1:2		DATE 8/20/2013	
		SHEET 17 OF 31	

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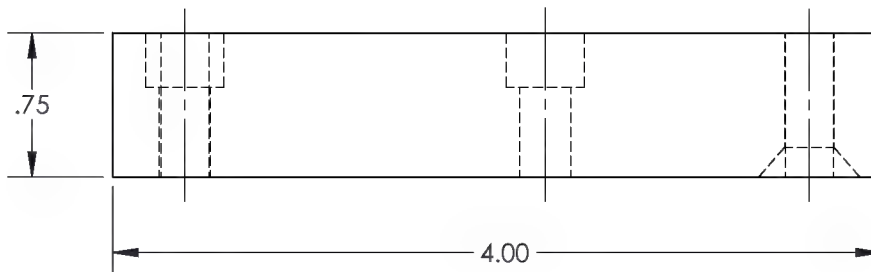
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL

UNDER REVIEW

URF 19-1163 19.10.31 (VM)



SECTION B-B




BASE

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-101-17	REV
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:1	DATE 8/20/2013
SHEET 18 OF 31	

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

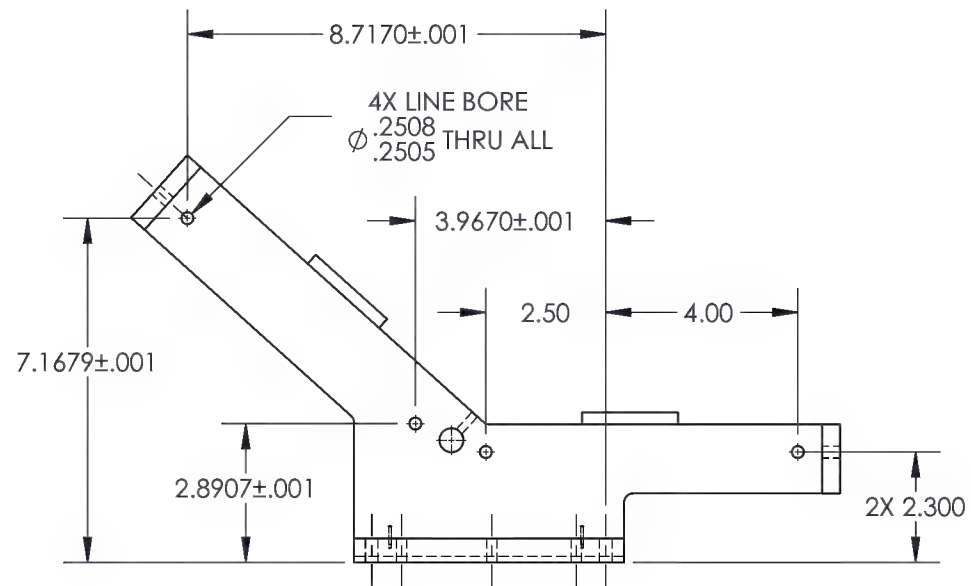
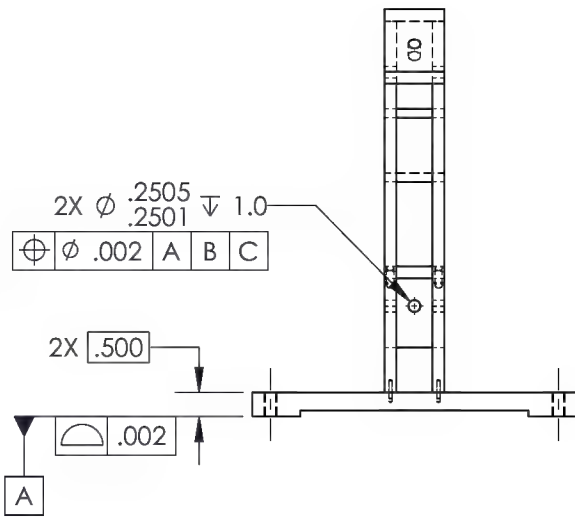
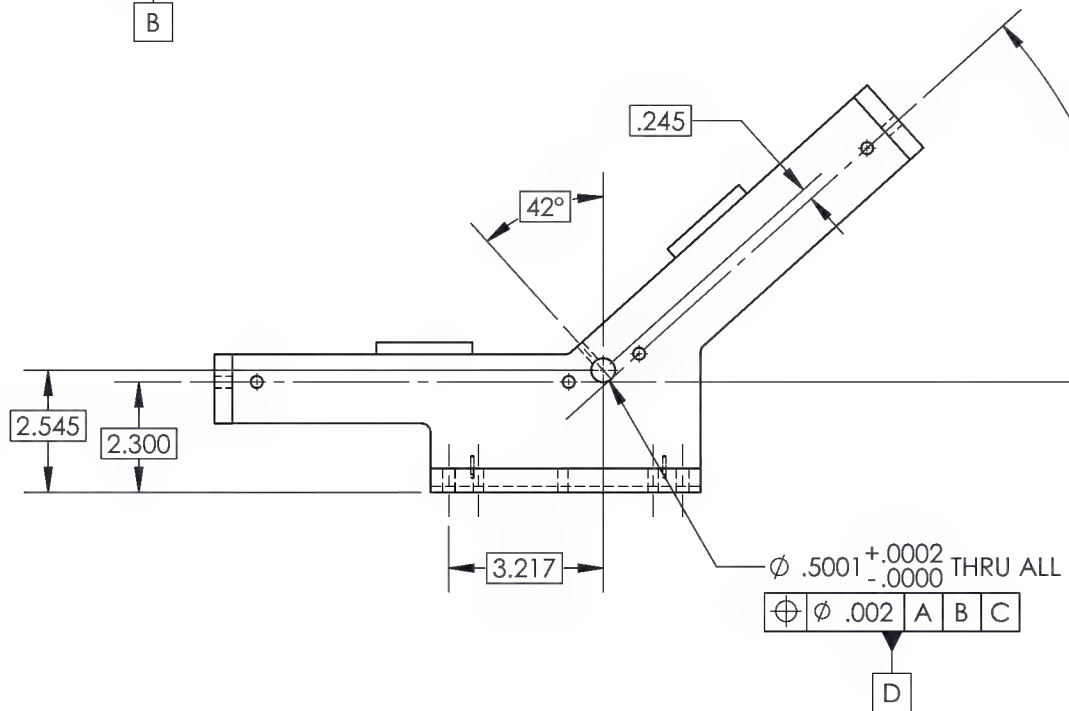
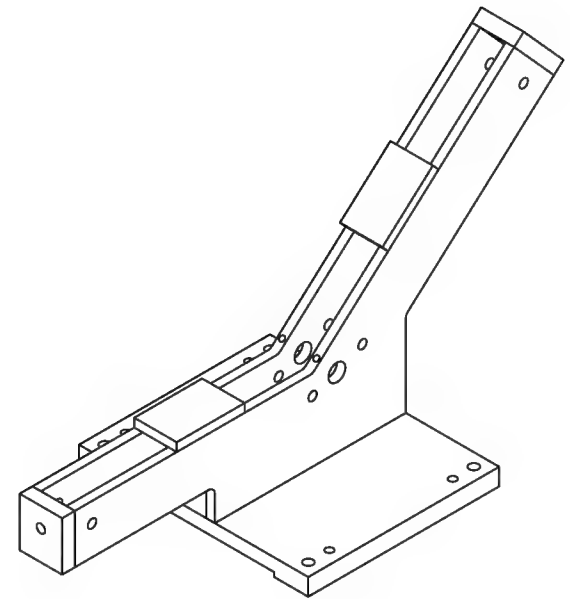
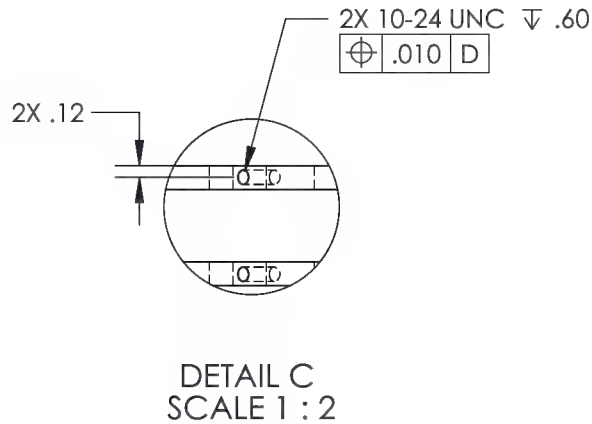
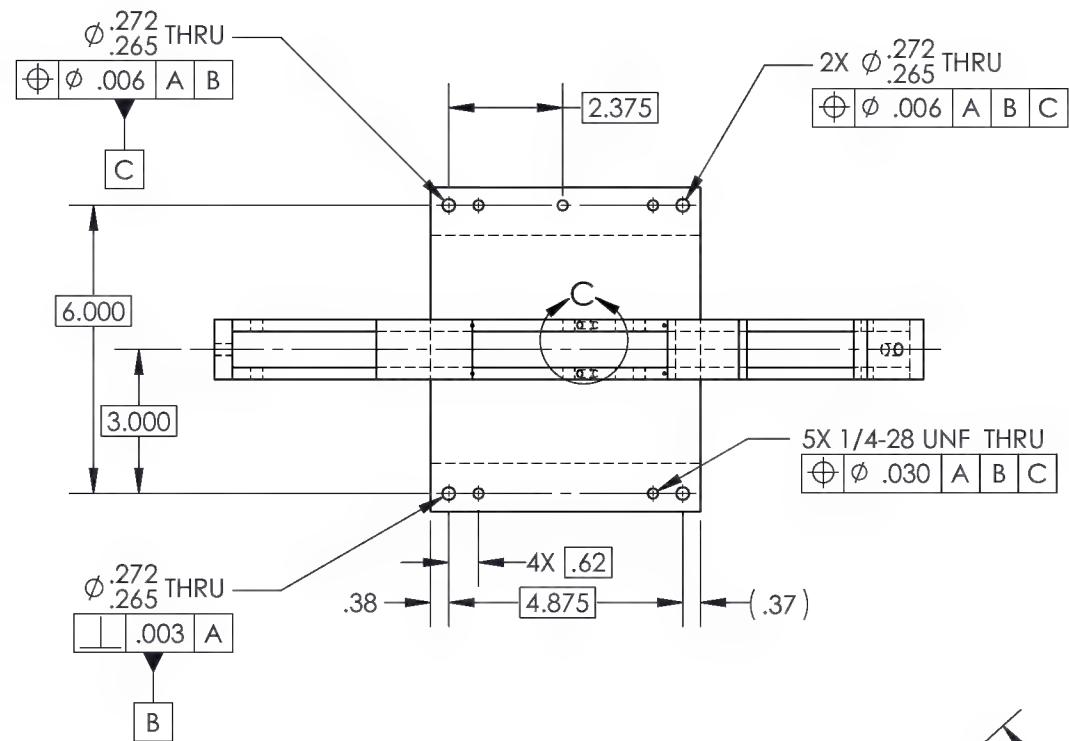


URF 19-1163 19.10.31 (VM)

		<h1>RED BARN MACHINE</h1>	
TITLE		ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.		RBT18542-103	
MAT'L		DRAWN BY: CLOUGH	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005		REAT	
.XX ± .01		TREAT	
.X ± .1		FINISH BLACK OXIDE	
1. BREAK ALL SHARP EDGES .015 x .45" OR .015R		SPEC	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL	
SCALE 1:3		BELL	
DATE 8/20/2013		SHEET 19 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



-103A

MACHINED FRAME

UNDER REVIEW

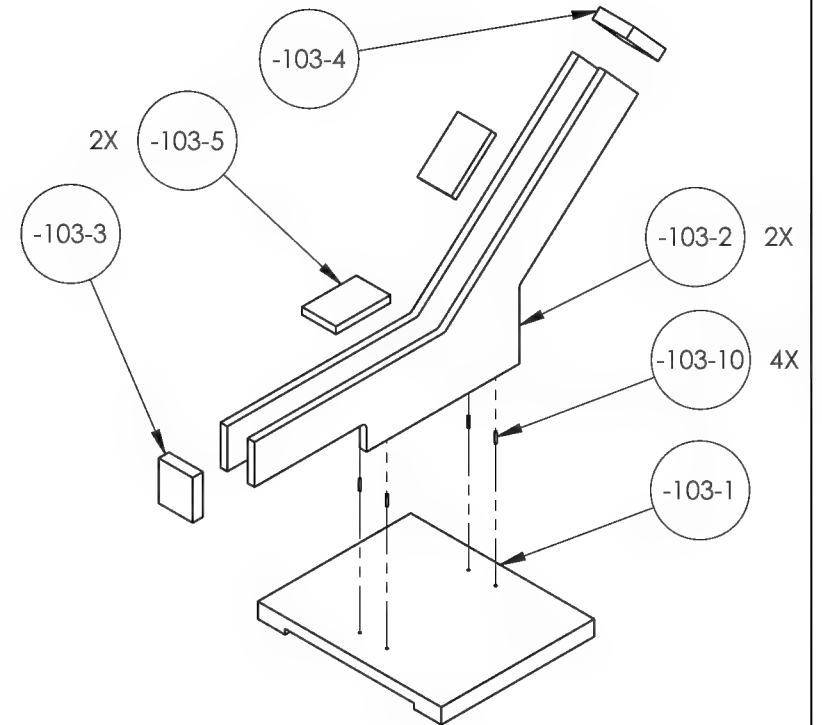
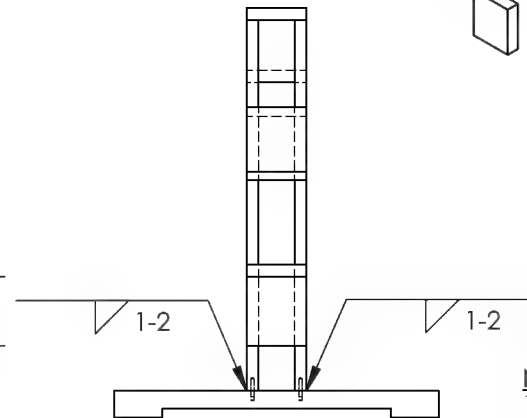
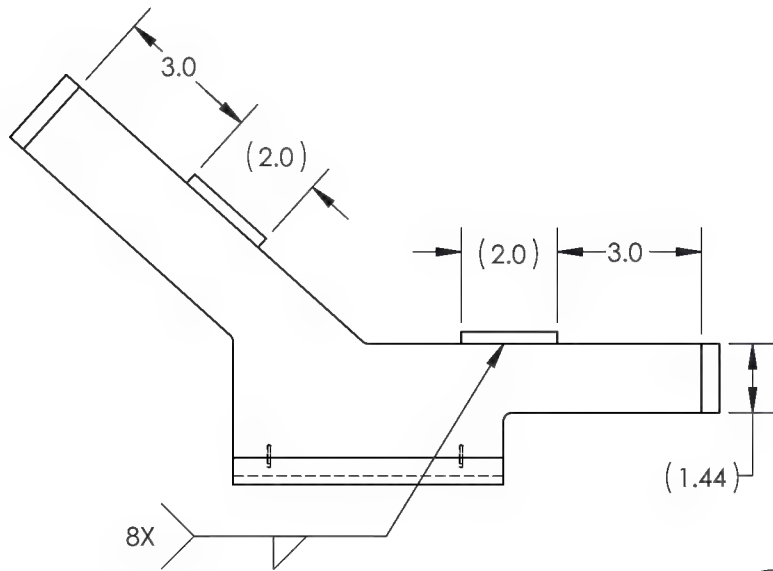
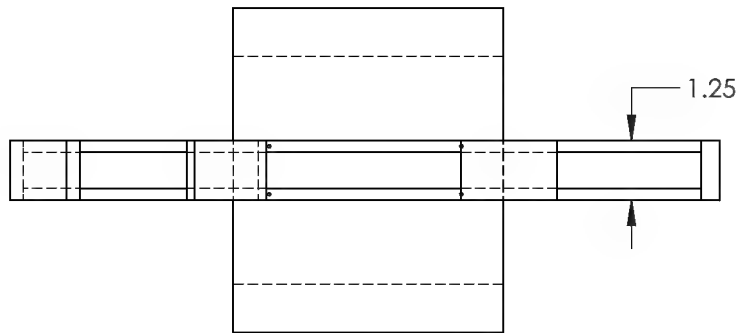
URF 19-1163 19.10.31 (VM)

NOTE:
1. NORMALIZE BEFORE MACHINING AND
APPLYING GD&T.

RED BARN MACHINE				
TITLE				
ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX				
DWG NO.				REV
RBT18542-103A				
MAT'L		DRAWN BY: CLOUGH		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>		
.XXX ± .005		TREAT NORMALIZE		
.XX ± .01		FINISH BLACK OXIDE		
.X ± .1		SPEC		
1. BREAK ALL SHARP EDGES .015 x 45°		USED ON MODEL		
OR .015R		BELL		
2. DIMENSIONAL LIMITS APPLY AFTER PLATING				
SCALE	1:4	DATE	8/20/2013	SHEET 20 OF 31

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REV	DESCRIPTION	DATE	INITIAL	APPROVED



ALIGNMENT FIXTURE WELDMENT

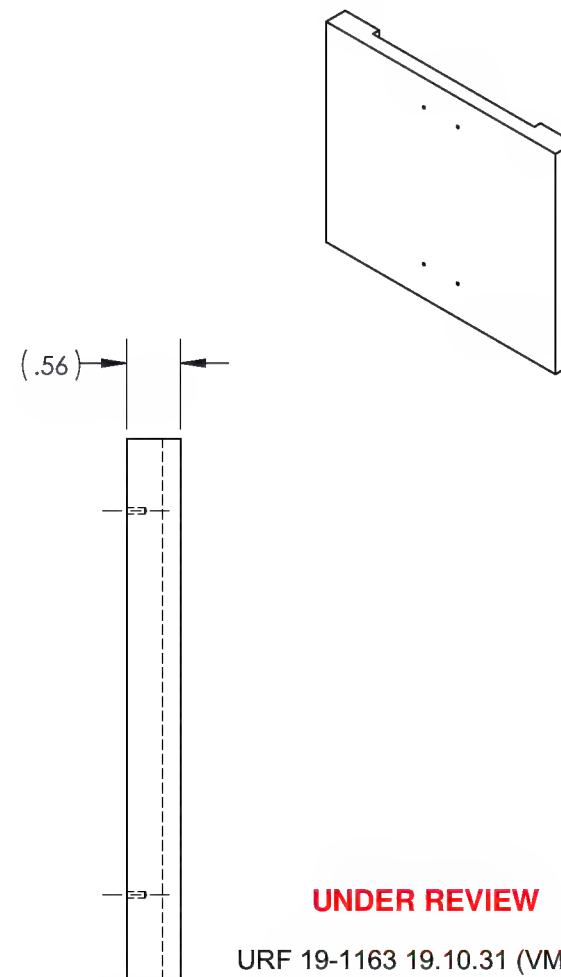
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

NOTE:
1. NORMALIZE AFTER WELDING.


RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103B	REV
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: CLOUGH APPROVED <i>D Weil</i> HEAT TREAT NORMALIZE FINISH SEE -103A SPEC USED ON MODEL BELL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SCALE 1:4 DATE 8/20/2013 SHEET 21 OF 31

REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



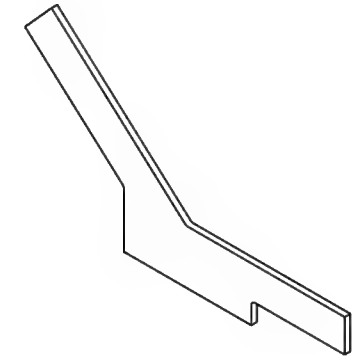
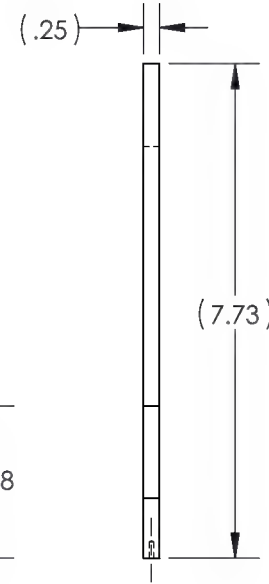
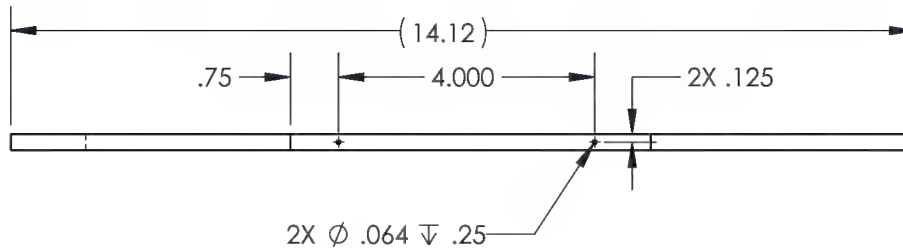
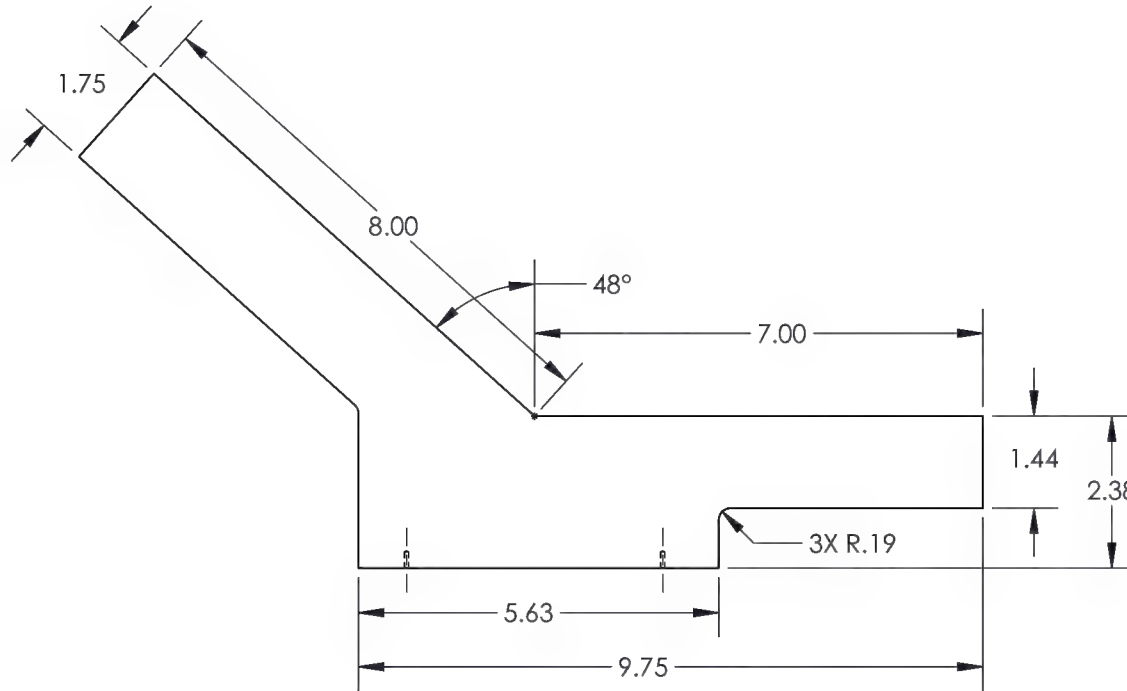
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

		<h1>RED BARN MACHINE</h1>	
TITLE		ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO.		RBT18542-103-1	
MAT'L 1018		DRAWN BY: CLOUGH	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005 .XX ± .01 .X ± .1		FRACTIONS ± 1/32 ANGLES ± 5°	
1. BREAK ALL SHARP EDGES .015 x .45" OR .015R		REAT TREAT FINISH SEE -103A	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SPEC	
		USED ON MODEL	
		BELL	
SCALE 1:2		DATE 8/20/2013	
		SHEET 22 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED





UNDER REVIEW

URF 19-1163 19.10.31 (VM)

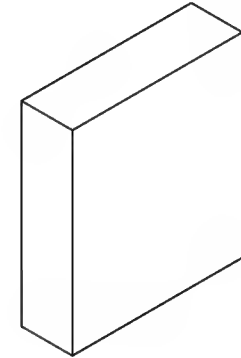
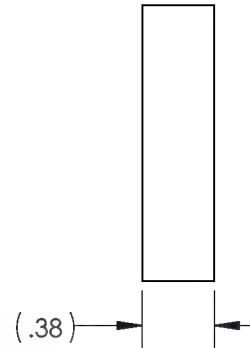
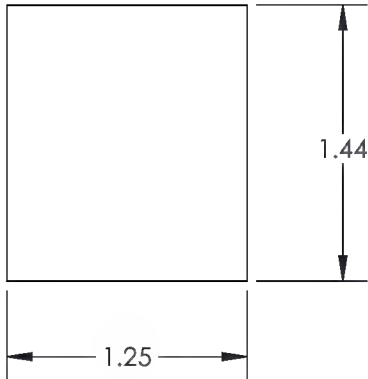
-103-2

SIDE PLATE

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-2	REV
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT SEE -103A SPEC USED ON MODEL BELL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:3	DATE 8/20/2013
SHEET 23 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED




UNDER REVIEW

URF 19-1163 19.10.31 (VM)

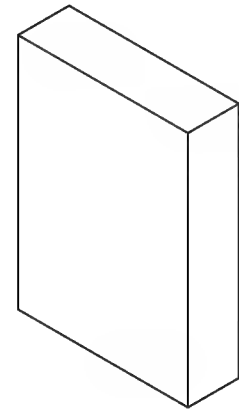
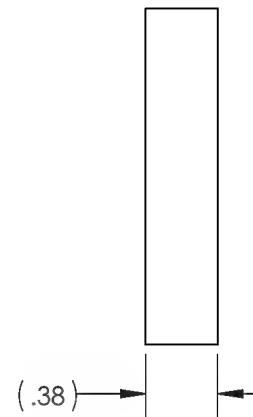
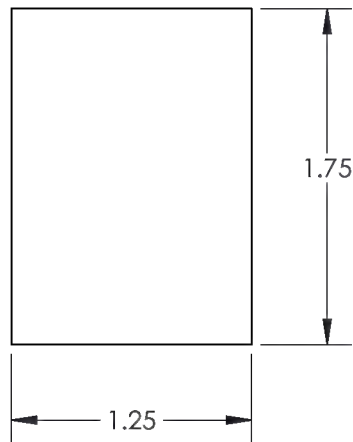
-103-3

END PLATE

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-3	REV
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 .XX ± .01 .X ± .1	HEAT TREAT FINISH SEE -103A
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SPEC
SCALE 1:1	USED ON MODEL BELL
DATE 8/20/2013	SHEET 24 OF 31

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED




UNDER REVIEW

URF 19-1163 19.10.31 (VM)

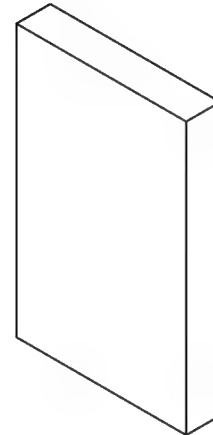
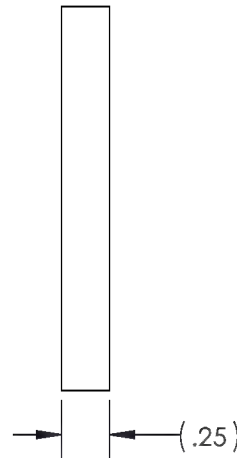
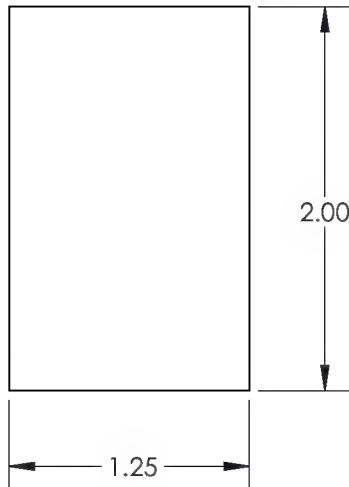
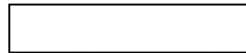
-103-4

TOP END PLATE

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-4	REV
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	APPROVED <i>D Weil</i>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	HEAT TREAT
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	FINISH SEE -103A
SCALE 1:1	SPEC
DATE 8/20/2013	USED ON MODEL
BELL	
SHEET 25 OF 31	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
APPROVED			


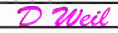


UNDER REVIEW

URF 19-1163 19.10.31 (VM)

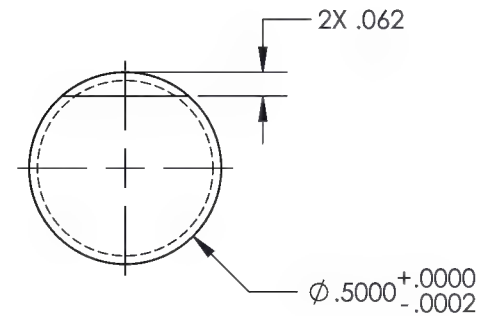
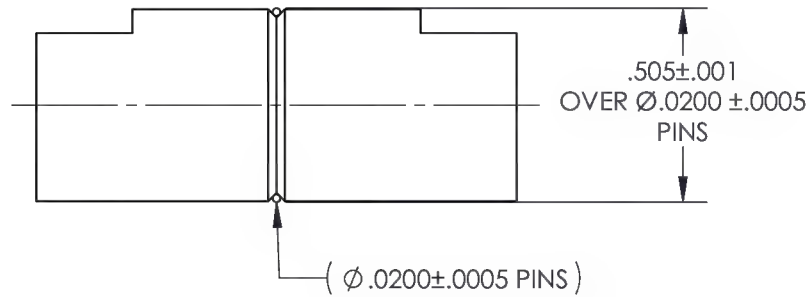
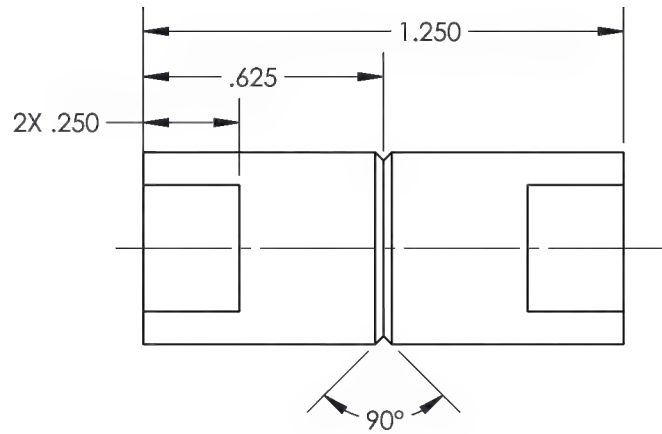
-103-5

GUSSET

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-5	REV
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT FINISH SEE -103A SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL
SCALE 1:1	DATE 8/20/2013
SHEET 26 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED


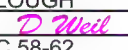


-103-7

PIVOT PIN

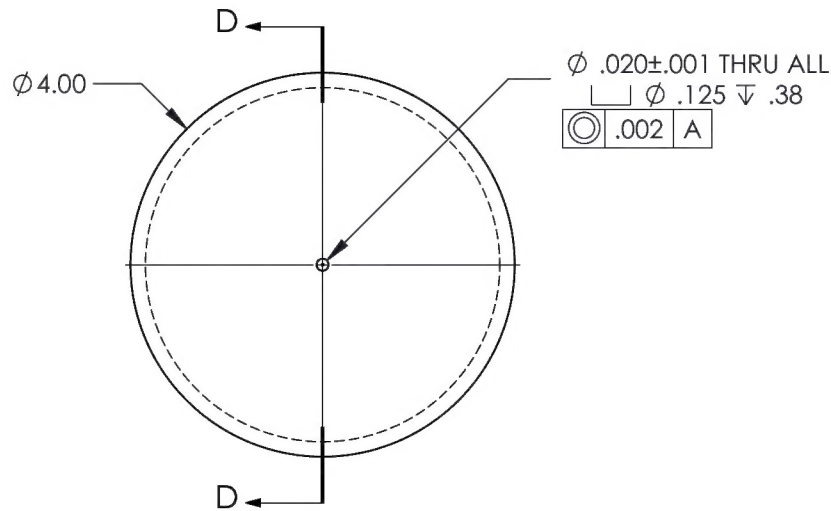
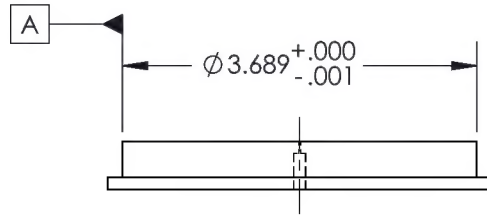
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-7	REV
MAT'L 01	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT RC 58-62 FINISH BLACK ANODIZE SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL BELL
SCALE 2:1	DATE 8/20/2013
SHEET 27 OF 31	

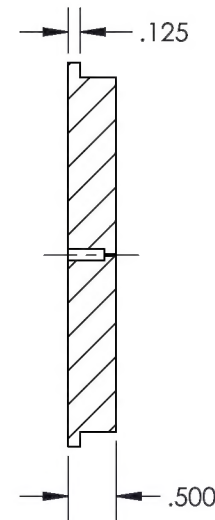
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED

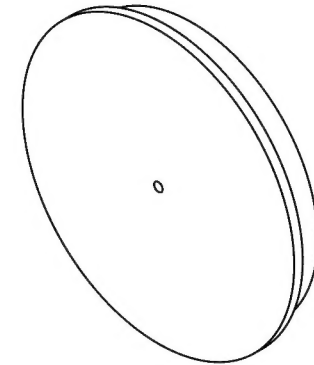


-103-9

CENTERING PLATE


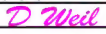


SECTION D-D



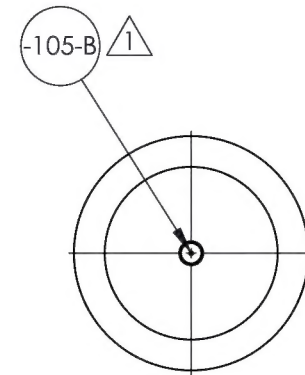
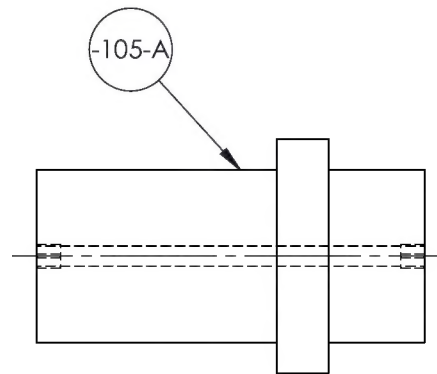
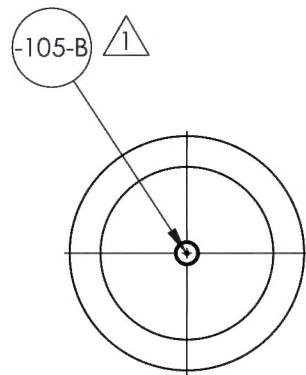
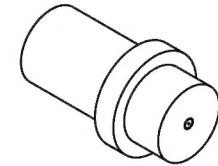
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-103-9	REV
MAT'L 4140 Q&T	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED  HEAT TREAT FINISH BLACK OXIDE SPEC USED ON MODEL BELL
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:2	DATE 8/20/2013
SHEET 28 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



-105


T/R HANGER BEARING SUPPORT ASSY.

UNDER REVIEW

URF 19-1163 19.10.31 (VM)

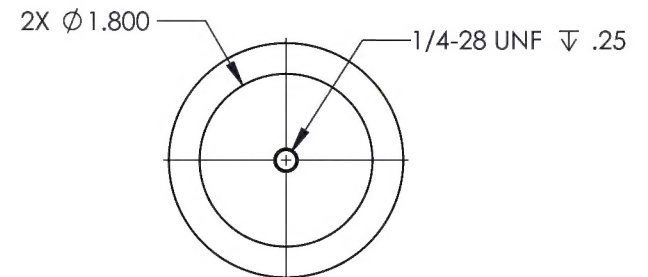
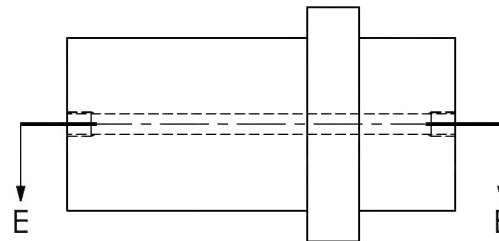
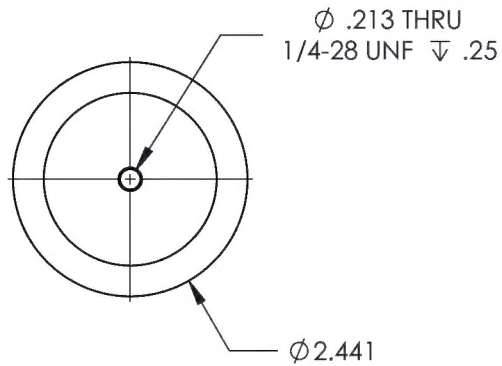
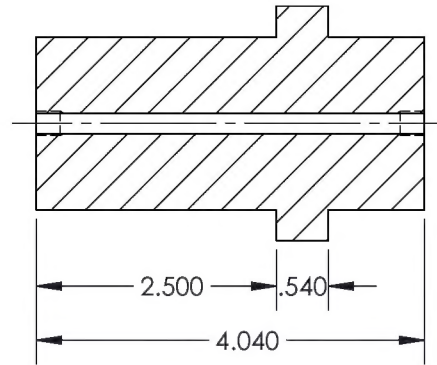
NOTE:

 LOCTITE THREADS FLUSH WITH SURFACE.

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-105	REV
MAT'L	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:2	DATE 8/21/2013
SHEET 29 OF 31	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



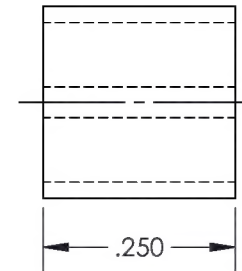
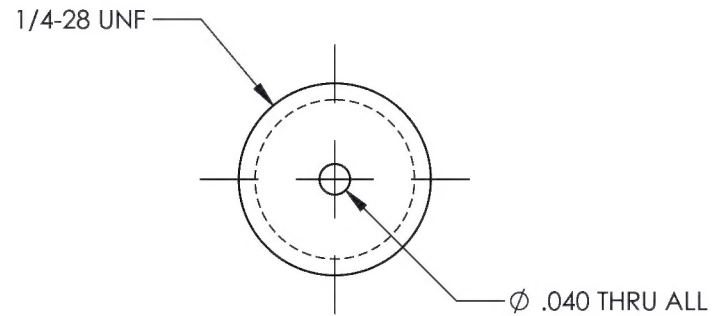
UNDER REVIEW

URF 19-1163 19.10.31 (VM)

RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-105-A	REV
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/32	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	BELL
SCALE 1:2	DATE 8/21/2013
SHEET 30 OF 31	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED


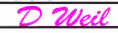


UNDER REVIEW

URF 19-1163 19.10.31 (VM)



SIGHT INSERT

 RED BARN MACHINE	
TITLE ALIGNMENT DRIVESHAFT HANGER & 42° GEARBOX	
DWG NO. RBT18542-105-B	REV
MAT'L 01	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	APPROVED 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	HEAT TREAT FINISH BLACK OXIDE SPEC USED ON MODEL BELL
SCALE 4:1	DATE 8/21/2013
SHEET 31 OF 31	